

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101564,886
Source: TEWIP
Date Processed by STIC: 1-30-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED
SUGGESTED CORRECTION
SERIAL NUMBER:

10/564,886

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 Skipped Sequences (NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence or Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,886

DATE: 01/30/2006

TIME: 14:49:24

Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

3 <110> APPLICANT: McGill University, Office of Technology Transfer
 4 Sonenberg, Nahum
 5 Lopez-Lastra, Marcelo
 7 <120> TITLE OF INVENTION: Method for Inducing Hepatitis C Virus (HCV) Replication in
 Vitro,
 8 Cells and Cell Lines Enabling Robust HCV Replication and Kit
 9 Therefor
 11 <130> FILE REFERENCE: 11168.242
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/564,886
 C--> 14 <141> CURRENT FILING DATE: 2006-01-17
 16 <150> PRIOR APPLICATION NUMBER: CA 2,454,540
 17 <151> PRIOR FILING DATE: 2004-02-06
 19 <150> PRIOR APPLICATION NUMBER: CA 2,436,104
 20 <151> PRIOR FILING DATE: 2003-07-14
 22 <160> NUMBER OF SEQ ID NOS: 37
 24 <170> SOFTWARE: PatentIn version 3.2
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 266
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Hepatitis C virus
 32 <220> FEATURE:
 33 <221> NAME/KEY: misc_feature
 34 <222> LOCATION: (157)..(157)
 35 <223> OTHER INFORMATION: n = G or T
 37 <400> SEQUENCE: 1
 38 cactccccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat 60
 40 gagtgtcgtg cagcctccag gaccccccct cccggagag ccatagtgtt ctgcggacc 120
 W--> 42 ggtgagtaca ccggaattgc caggacgacc gggtcnttc ttggataaac ccgctcacat 180
 44 gcctggagat ttggcgtgc ccccgcaaga ctgctagccg agtagtgttg gtcgcgaaa 240
 46 gccttgtgg tactgcctga tagggt 266
 49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 265
 51 <212> TYPE: DNA
 52 <213> ORGANISM: Epstein Barr virus
 54 <400> SEQUENCE: 2
 55 cactccccctg tgaggaacta ctgtcttcac gcagaaagcg tctagccatg gcgttagtat 60
 57 gagtgtcgtg cagcctccag gaccccccct cccggagag ccatagtgtt ctgcggacc 120
 59 ggtgagtaca ccggaattgc caggacgacc gggtcnttc ttggataaac ccgctcaatg 180
 61 cctggagatt tggcgtgcc cccgcgagac tgctagccga gttagtgg gtcgcgaaa 240
 63 gccttgtgg actgcctgat agggt 265
 66 <210> SEQ ID NO: 3
 67 <211> LENGTH: 226
 68 <212> TYPE: DNA
 69 <213> ORGANISM: Hepatitis C virus

Does Not Comply
 Corrected Diskette Needed
 (pg. 5)

RAW SEQUENCE LISTING

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Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

71 <400> SEQUENCE: 3
 72 ccaggacccc ccctccgggg agagccatag tggtctgcgg aaccggtag tacaccggaa 60
 74 ttgccaggac gaccgggtcc tttcttggat aaaccggctc aatgcctgga gattggcg 120
 76 tgcccccgca agactgctag ccgagtagtg ttgggtcgcg aaaggccttg tggtactgcc 180
 78 tcatagggtg cttgcgagtg ccccgaggagg tctcgtagac cgtgca 226

81 <210> SEQ ID NO: 4
 82 <211> LENGTH: 226
 83 <212> TYPE: DNA
 84 <213> ORGANISM: Epstein Barr virus
 86 <400> SEQUENCE: 4
 87 ccaggacccc ccctccgggg agagccatag tggtctgcgg aaccggtag tacaccggaa 60
 89 ttgccaggac gaccgggtcc tttcttggat aaatccgctc aatgcctgga gattggcg 120
 91 tgcccccgca agactgctag ccgagtagtg ttgggtcgcg aaaggccttg tggtactgcc 180
 93 tcatagggtg cttgcgagtg ctccggaggagg tctcgtagac cgtgca 226

96 <210> SEQ ID NO: 5
 97 <211> LENGTH: 131
 98 <212> TYPE: DNA
 99 <213> ORGANISM: Hepatitis C virus
 101 <400> SEQUENCE: 5
 102 cactccctg tgaggaacta ctgtcttcac gcagaaaagcg tctagccatg gcgttagtat 60
 104 gagtgcgtg cagcctccag gaccccccct cccggggagag ccatagtggt ctgcggaaacc 120
 106 ggtgactaca c 131

109 <210> SEQ ID NO: 6
 110 <211> LENGTH: 131
 111 <212> TYPE: DNA
 112 <213> ORGANISM: Epstein Barr virus
 114 <400> SEQUENCE: 6
 115 cactccctg tgaggaacta ctgtcttcac gcagaaaagcg tctagccatg gcgttagtat 60
 117 gagtgcgtg cagcctccag gaccccccct cccggggagag ccatagtggt ctgcggaaacc 120
 119 ggtgactaca c 131

122 <210> SEQ ID NO: 7
 123 <211> LENGTH: 131
 124 <212> TYPE: DNA
 125 <213> ORGANISM: Epstein Barr virus
 127 <400> SEQUENCE: 7
 128 cactccctg tgaggaacta ctgtcttcac gcagaaaagcg tctagccatg gcgttagtat 60
 130 gagtgcgtg cagcctccag gaccccccct cccggggagag ccatagtggt ctgcggaaacc 120
 132 ggtgactaca c 131

135 <210> SEQ ID NO: 8
 136 <211> LENGTH: 131
 137 <212> TYPE: DNA
 138 <213> ORGANISM: Epstein Barr virus
 140 <400> SEQUENCE: 8
 141 cactccctg tgaggaacta ctgtcttcac gcagaaaagcg tctagccatg gcgttagtat 60
 143 gagtgcgtg cagcctccag gaccccccct cccggggagag ccatagtggt ctgcggaaacc 120
 145 ggtgactaca c 131

148 <210> SEQ ID NO: 9
 149 <211> LENGTH: 131
 150 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,886

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Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

151 <213> ORGANISM: Epstein Barr virus
 153 <400> SEQUENCE: 9
 154 cactcccctg tgaggaacta ctgtcttac gcagaaaagcg tctagccatg gcgttagtat 60
 156 gagtgctgtg cagcctccag gaccccccct cccggggagag ccatagtggt ctgcggacc 120
 158 ggtgagtaca c 131
 161 <210> SEQ ID NO: 10
 162 <211> LENGTH: 131
 163 <212> TYPE: DNA
 164 <213> ORGANISM: Epstein Barr virus
 166 <400> SEQUENCE: 10
 167 cactcccctg tgaggaacta ctgtcttac gcagaaaagcg tctagccatg gcgttagtat 60
 169 gagtgctgtg cagcctccag gaccccccct cccggggagag ccatagtggt ctgcggacc 120
 171 ggtgagtaca c 131
 174 <210> SEQ ID NO: 11
 175 <211> LENGTH: 171
 176 <212> TYPE: DNA
 177 <213> ORGANISM: Hepatitis C virus
 179 <400> SEQUENCE: 11
 180 cggaaattgcc aggacgaccg ggtcctttct tggataaacc cgctcaatgc ctggagattt 60
 182 gggcgtgccccc ccgcaagact gctagccgag tagtgttggg tcgcgaaagg ccttggta 120
 184 ctgcctgata gggtgcttgc gagtgccccg ggaggtctcg tagaccgtgc a 171
 187 <210> SEQ ID NO: 12
 188 <211> LENGTH: 171
 189 <212> TYPE: DNA
 190 <213> ORGANISM: Epstein Barr virus
 192 <400> SEQUENCE: 12
 193 cggaaattgcc aggacgaccg ggtcctttct tggataaacc cgctcaatgc ctggagattt 60
 195 gggcgtgccccc ccgcaagact gctagccgag tagtgttggg tcgcgaaagg ccttggta 120
 197 ctgcctgata gggtgcttgc gagtgccccg ggaggtctcg tagaccgtgc a 171
 200 <210> SEQ ID NO: 13
 201 <211> LENGTH: 171
 202 <212> TYPE: DNA
 203 <213> ORGANISM: Epstein Barr virus
 205 <400> SEQUENCE: 13
 206 cggaaattgcc aggacgaccg ggtcctttct tggataaacc cgctcaatgc ctggagattt 60
 208 gggcgtgccccc ccgcaagact gctagccgag tagtgttggg tcgcgaaagg ccttggta 120
 210 ctgcctgata gggtgcttgc gagtgccccg ggaggtctcg tagaccgtgc a 171
 213 <210> SEQ ID NO: 14
 214 <211> LENGTH: 171
 215 <212> TYPE: DNA
 216 <213> ORGANISM: Epstein Barr virus
 218 <400> SEQUENCE: 14
 219 cggaaattgcc gggaaagactg ggtcctttct tggataaacc cactctatgc cggccattt 60
 221 gggcgtgccccc ccgcaagact gctagccgag tagtgttggg ttgcgaaagg ccttggta 120
 223 ctgcctgata gggtgcttgc gagtgccccg ggaggtctcg tagaccgtgc a 171
 226 <210> SEQ ID NO: 15
 227 <211> LENGTH: 171
 228 <212> TYPE: DNA
 229 <213> ORGANISM: Epstein Barr virus

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/564,886

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Input Set : A:\11168_242.ST25v1 2006 01 16.txt

Output Set: N:\CRF4\01302006\J564886.raw

231 <400> SEQUENCE: 15
 232 cggaaattgcc aggacgaccg ggtccttct tggataaaacc cgctcaatgc ctggagattt 60
 234 gggcgtgccc ccgcaagact gctagccgag tagtgttggg tcgcgaaagg ccttgtggta 120
 236 ctgcctgata gggtgcttgc gagtgccccg ggaggtctcg tagaccgtgc a 171
 239 <210> SEQ ID NO: 16
 240 <211> LENGTH: 171
 241 <212> TYPE: DNA
 242 <213> ORGANISM: Epstein Barr virus
 244 <400> SEQUENCE: 16
 245 cggaaattgcc aggacgaccg ggtccttct tggattaatc cgctcaatgc ctggagattt 60
 247 gggcgtgccc ccgcaagact gctagccgag tagtgttggg tcgcgaaagg ccttgtggta 120
 249 ctgcctgata gggtgcttgc gagtgccccg ggaggtctcg tagaccgtgc a 171
 252 <210> SEQ ID NO: 17
 253 <211> LENGTH: 383
 254 <212> TYPE: DNA
 255 <213> ORGANISM: Epstein Barr virus
 257 <400> SEQUENCE: 17
 258 gccagccccc tgatgggggc gacactccac catgaatcac tccccctgtga ggaactactg 60
 260 tcttcacgca gaaagcgtct agccatggcg ttagtatgag tgtcgtgcag cctccaggac 120
 262 ccccccctccc gggagagcca tagtggctcg cggAACCGGT gagtacaccg gaattgccag 180
 264 gacgaccggg tccttcttg gataaaccccg ctcaatgcct ggagatttgg gcgtgcccc 240
 266 gcaagactgc tagccgagta gtgttgggtc gcgaaaggcc ttgtggtaact gcctgatagg 300
 268 gtgcttgcga gtgc(ccc)ggg aggtctcgta gaccgtgcac catgagcacg aatcctaaac 360
 270 ctcaaagaaa aaccaaacgt aac 383
 273 <210> SEQ ID NO: 18
 274 <211> LENGTH: 26
 275 <212> TYPE: DNA
 276 <213> ORGANISM: Hepatitis C virus
 278 <400> SEQUENCE: 18
 279 atgggggcga cactccacca tgaatc 26
 282 <210> SEQ ID NO: 19
 283 <211> LENGTH: 25
 284 <212> TYPE: DNA
 285 <213> ORGANISM: Hepatitis C virus
 287 <400> SEQUENCE: 19
 288 gttacgtttt gttttcttt gaggt 25
 291 <210> SEQ ID NO: 20
 292 <211> LENGTH: 24
 293 <212> TYPE: DNA
 294 <213> ORGANISM: Hepatitis C virus
 296 <400> SEQUENCE: 20
 297 tgtcttcacg cagaaagcgt ctag 24
 300 <210> SEQ ID NO: 21
 301 <211> LENGTH: 23
 302 <212> TYPE: DNA
 303 <213> ORGANISM: Hepatitis C virus
 305 <400> SEQUENCE: 21
 306 caagcaccct atcaggcagt acc 23
 309 <210> SEQ ID NO: 22

RAW SEQUENCE LISTING

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Input Set : A:\11168_242.ST25v1 2006 01 16.txt
 Output Set: N:\CRF4\01302006\J564886.raw

```

310 <211> LENGTH: 20
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Artificial Construct
317 <400> SEQUENCE: 22
318 gtggggcgcc ccaggcacca
321 <210> SEQ ID NO: 23
322 <211> LENGTH: 24
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Artificial Construct
329 <400> SEQUENCE: 23
330 gtccttaatg tcacgcacga ttcc
333 <210> SEQ ID NO: 24
334 <211> LENGTH: 21
335 <212> TYPE: DNA
336 <213> ORGANISM: Hepatitis C virus
338 <400> SEQUENCE: 24
339 gaagatgact tagatgttgt t
342 <210> SEQ ID NO: 25
343 <211> LENGTH: 23
344 <212> TYPE: DNA
345 <213> ORGANISM: Hepatitis C virus
347 <400> SEQUENCE: 25
348 aacccttgata aggtgccatg ctt
351 <210> SEQ ID NO: 26
352 <211> LENGTH: 21
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Artificial Construct
359 <400> SEQUENCE: 26
360 cgtcttagcca tggcgtagg t
363 <210> SEQ ID NO: 27
364 <211> LENGTH: 17
365 <212> TYPE: DNA
366 <213> ORGANISM: Artificial
368 <220> FEATURE:
369 <223> OTHER INFORMATION: Artificial Construct
371 <400> SEQUENCE: 27
372 cctgcgcggc aagtaaa
375 <210> SEQ ID NO: 28
376 <211> LENGTH: 18
377 <212> TYPE: DNA
378 <213> ORGANISM: Artificial
380 <220> FEATURE:
381 <223> OTHER INFORMATION: Artificial Construct
  
```

INVALID
response

P/S
See item
#11 on
error
summary
sheet.

INVALID
response

24

Same error

21

Same error

17

Same
error

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/30/2006
PATENT APPLICATION: US/10/564,886 TIME: 14:49:25

Input Set : A:\11168_242.ST25v1 2006 01 16.txt
Output Set: N:\CRF4\01302006\J564886.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 157 ✓

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:22,23,26,27,28,29,30,31,32,33,34,35,36,37

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/564,886

DATE: 01/30/2006

TIME: 14:49:25

Input Set : A:\11168_242.ST25v1 2006 01 16.txt
Output Set: N:\CRF4\01302006\J564886.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:120